

ABSTRACT

A polypropylene-based composite resin composition in which: (1) a complex viscosity η^* at 190°C and an angular frequency (ω) of 0.1 rad/s is 2000 Pa·s or more, (2) shear storage moduli G'_{100} , G'_{10} , $G'_{0.1}$ and $G'_{0.01}$ at 190°C and angular frequencies (ω) of 100, 10, 0.1 and 0.01 rad/s satisfy an equation (I) and an equation (II):

$$\log (G'_{100}) - \log (G'_{10}) \geq 0.6 \quad (I)$$

$$\log (G'_{0.1}) - \log (G'_{0.01}) \leq 0.4 \quad (II)$$

and (3) a shear storage modulus $G'_{0.0251}$ at 190°C and an angular frequency of 0.0251 rad/s is 60 Pa or more. The polypropylene-based composite resin composition reveals less liability to cause failures such as short shot, burrs, surface formation failure, deformation and stringing even when a molding cycle in injection molding is shortened.